STUDENT REPORT

DETAILS

Name

ZIHAN

Roll Number

3BR23EE113

EXPERIMENT

Title

ENCODE THE NUMBER

Description

You work in the message encoding department of a national security agency. Every message that is sent from or received in your office is encoded. You have an integer N, and each digit of N is squared and the squares are concatenated together to encode the original number. Your task is to find and return an integer value representing the encoded value of the number.

input1: An integer value N representing the number to be encoded.

Output :

Return an integer value representing the encoded value of the number.

Sample Input:

167

Sample Output:

13649

Source Code:

```
def encode_number(N):
    # Convert the number to a string to iterate through each digit
    str_N = str(N)

    # Initialize an empty string to store the encoded result
    encoded_str = ""

    # Iterate through each character in the string representation of N
    for digit in str_N:
        # Square the digit and concatenate to the result string
        encoded_str += str(int(digit) ** 2)

    # Convert the final encoded string to an integer and return
    return int(encoded_str)

# Sample Input
N = 167
# Sample Output
result = encode_number(N)
print(result)  # This will output 13649
```

RESULT

1 / 5 Test Cases Passed | 20 %